

ABSTRACT

To provide a non-aqueous electrolyte secondary battery adapted to prevent an internal short circuit between an positive electrode and a negative electrode caused by the penetration of electrically conductive micro particles through a separator, which occurs when winding up electrodes, and manufacturing methods of an electrode used therein, whereby the non-aqueous electrolyte secondary battery having a coiled electrode assembly is formed through the multilayer winding of an positive electrode 90 having a metallic collector 76 coated with an positive electrode mixture 78 composed of an positive electrode active material that occludes and liberates lithium ions, a negative electrode 86 having a metallic collector 82 coated with a negative electrode mixture 84, composed of a negative electrode active material that occludes and liberates lithium ions, and a separator 72 interposed between the positive electrode and the negative electrode, wherein the positive electrode 90 has an insulating layer 100 formed by means of the dried coating method, the heat seal tape method, or the hot melt coating method on a portion of the metallic collector 76 which is uncoated with the positive electrode mixture 78 and opposed to the negative electrode 86 coated with the negative electrode mixture 84, through the separator 72.